

## 110.5 - Fertilizers (powder form)

These SRMs are intended for use in the fertilizer industry as working standards.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

(Concentrations are in mass fractions, in mg/kg, unless noted by an asterisk for %)																	
SRM	Description	Unit Size	Aluminum (Al)	Arsenic (As)	Barium (Ba)	Boron (B)	Cadmium (Cd)	Cadmium oxide (CdO)	Calcium (Ca)	Calcium oxide (CaO)	Chlorine (Cl)	Chromium (Cr)	Chromium oxide (Cr <sub>2</sub> O <sub>3</sub> )	Cobalt (Co)	Copper (Cu)	Fluorine (F)	Iron (Fe)
120c	Phosphate Rock (Florida)	90 g								48.02*							
193	Potassium Nitrate	90 g															
194a	Ammonium Dihydrogen Phosphate	90 g															
200b	Potassium Dihydrogen Phosphate (Fertilizer Standard)	90 g															
694	Phosphate Rock, Western	90 g						0.015*		43.6*			(0.10*)			3.2*	
695	Trace Elements in Multi-Nutrient Fertilizer	70 g	0.61*	200		0.111*	16.9		2.26*		(4.6*)	244		65.3	1225		3.99*
2429	Flue Gas Desulfurization Gypsum	1 bottle x 200 g		2.53	49.6					31.93*	(23.5)	2.74					

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SRM	Description	Unit Size	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	Lead (Pb)	Magnesium (Mg)	Magnesium oxide (MgO)	Manganese (Mn)	Manganese oxide (MnO)	Mercury (Hg)	Molybdenum (Mo)	Nickel (Ni)	Nitrogen (N)	Phosphorus (P)	Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> )	Potassium (K)	Potassium oxide (K <sub>2</sub> O)
120c	Phosphate Rock (Florida)	90 g												33.34*		0.147*
193	Potassium Nitrate	90 g										13.85*			38.66*	
194a	Ammonium Dihydrogen Phosphate	90 g										12.130*	26.93*			
200b	Potassium Dihydrogen Phosphate (Fertilizer Standard)	90 g											22.769*		28.735*	
694	Phosphate Rock, Western	90 g	0.79*			0.33*		0.0116*				1.8*		30.2*		0.51*
695	Trace Elements in Multi-Nutrient Fertilizer	70 g		273	1.79*		0.305*		1.955	20.0	135	13.9*	7.2*		11.65*	
2429	Flue Gas Desulfurization Gypsum	1 bottle x 200 g	0.2357*	0.763	(12.1)	0.0431*			0.778					0.01560*	(9.6)	0.04587*

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Selenium  
(Se)

2.1

5.27

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SRM	Description	Unit Size	Silicon dioxide (SiO <sub>2</sub> )	Sodium (Na)	Sodium oxide (Na <sub>2</sub> O)	Strontium (Sr)	Titanium (Ti)	Titanium dioxide (TiO <sub>2</sub> )	Uranium (U)	Vanadium (V)	Vanadium pentoxide (V <sub>2</sub> O <sub>5</sub> )	Zinc (Zn)
120c	Phosphate Rock (Florida)	90 g										
193	Potassium Nitrate	90 g										
194a	Ammonium Dihydrogen Phosphate	90 g										
200b	Potassium Dihydrogen Phosphate (Fertilizer Standard)	90 g										
694	Phosphate Rock, Western	90 g	11.2*		0.86*			(0.11*)	0.01414*		0.31*	
695	Trace Elements in Multi-Nutrient Fertilizer	70 g		0.405*			(310)			122		0.325*
2429	Flue Gas Desulfurization Gypsum	1 bottle x 200 g	0.810*	(11.6)		328.9		0.020*				

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